Base4NFDI

The way towards common Basic Services in the NFDI

Lars Bernard NFDI4EarthPlenary 2023-06-02





Grant Numbers: 521453681, 521460392, 521462155, 521463400, 521466146, 521471126, 521473512, 521474032, 521475185, 521476232



Contents

- Where we come from and Overall Concept
- How to Apply and Current Proposals

Base4NFDI - Who we are

9/2019

4/2022

Berlin Declaration on NFDI Cross-Cutting Topics

NFDI Consortia build Base4NFDI and delivers NFDI-wide Basic Services

KonsortSWD NFDI4Ing PUNCH4NFDI

GHGA Daphne4NFDI Text+

NFDI4Culture First and Second-round BERD@NFDI

NFDI4Cat Consortia

NFDI4Health NFDI4Earth MaRDI

NFD14Earth

NFDI4Biodiversity NFDI4DataScience

NFDI-MatWerk DataPLANT

NFDI4Microbiota

NFDI4BIOIMAGE

NFDIxCS Third-round Consortia

Initiatives

NFDI4Memory

NFDI4Objects

FAIRagro

NFDI4Energy NFDI4Immuno

19 Consortia + 7(+6) Consortia Initiatives + DFN = 1 proposal

Base4NFDI - Basic Services across NFDI consortia

 The 26 NFDI Consortia represent their specific domains and their infrastructural expertise including domainspecific basic-services

 Interoperability and cost-efficiency in NFDI however, requires NFDI-wide basic services Daphne4NFDI

NFDI4Microbiota DataPLANT

KonsortSWD Third-round Consortia

NFDI4Culture Text+

NFDI4Chem

Data
Production

PUNCH4NFDI

NFDI4Health
BERD@NFDI

MARDI

NFDI4Cat

NFDI4Cat

NFDI4Cat

NFDI4DataScience

NFDI4DataScience

A *service* is a technical-organisational solution, which typically includes storage and computing services, software, processes and workflows, as well as the necessary personnel support for different service desks.



What Base4NFDI will do

Translate needs & topics in basic services



Base4NFDI provides the

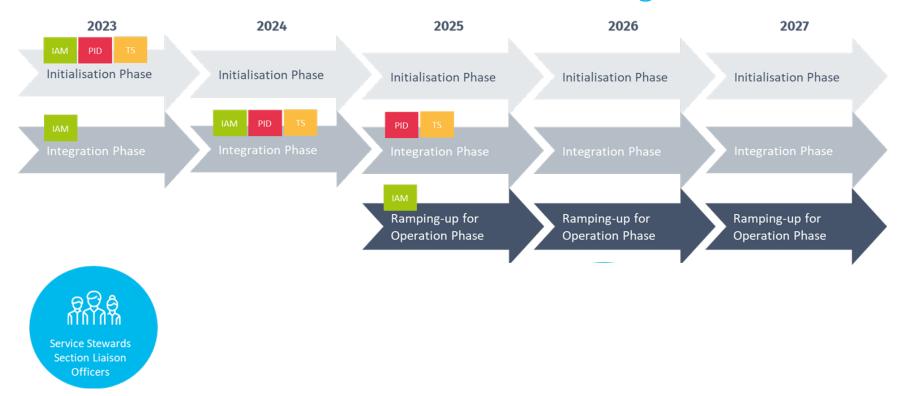
NFDI-embedded framework for

- user-driven requirements analysis and defining potential basic services within NFDI Sections
- stepwise development for integrating and ramping-up basic service candidates
- setting up NFDI-wide basic service portfolio
- monitoring and evaluation
- transparent allocation of flexible funding
- consensus building



How Base4NFDI will deliver

(03/2023-03/2028 with a total of 24.5 Mio.€ Funding)

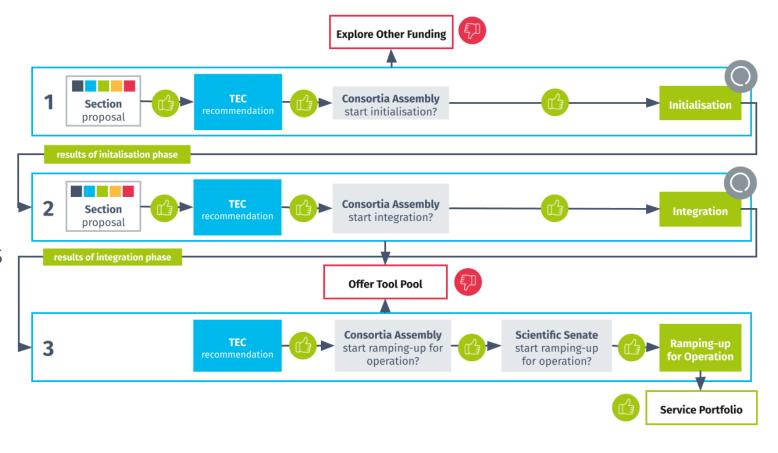


- Flexible Funds allow to adapt to organisational/technical dynamics and technical complexities
- Will enable development and roll-out of substantial number of services
- Will help to ensure integration in diverse existing landscapes by supporting adoption



How Base4NFDI will decideTightly embedded in the NFDI Association

- Each development step is subject to evaluation and joint agreement on next steps
- Proposals are initiated and coordinated by NFDI Sections
- Proposals are evaluated by
 Technical Expert Committee
 (TEC), Consortia Assembly
 and Scientific Senate





How to Apply and Current Proposals

- Where we come from and Overall Concept
- How to Apply and Current Proposals

Base4NFDI

Who can apply, how, and for how much?

WHO

- A lead institution and further participating institutions
- All institutions need to be (or have a route to become) members of a DFG-funded consortium

HOW

- A template for applications and an overview about criteria is available through https://base4nfdi.de/
- Funds will be allocated based on "building blocks" per phase

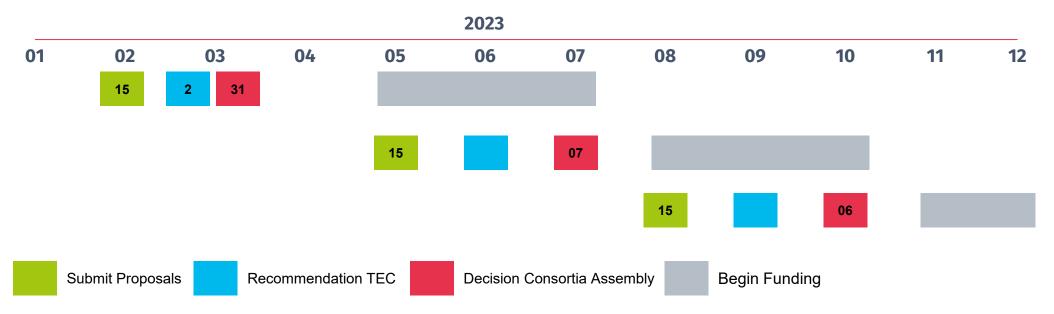


 Using these building blocks proposals need to specify how many or which share of a building block they request



Base4NFDI looking Forward

Dates for 2023



- Three Base4NFDI Calls in 2023 and further calls in 2024/25 no need to rush!!
- All potential services first submit proposals for the initialization phase
- The Technical Expert Committee will be completed in January 2023
- Binding decisions on funding to be made by the consortia assembly



Proposals

from 1st Call (1 proposal selected for funding)

- **1.** IAM4NFDI Basic Service "Identity and Access Management"

 IAM4NFDI will establish and provide a state-of-the-art AAI, that fosters cross-consortial and international collaboration. This NFDI Community AAI will be connected to the
 - national identity federation DFN-AAI.
- 2. DMP4NFDI NFDI Basic Service for Data Management Plans
- 3. Harvesting and Findability Enhancing Services HaDES
- 4. Knowledge Graph Infrastructure KGI
- 5. PID4NFDI Persistent Identifier Services
- 6. Terminology Services 4NFDI TS4NFDI



Current Proposals

from 2nd Call

1. PID4NFDI - Persistent Identifier Services

Will build an NFDI foundation service on established PID infrastructures. PID4NFDI will follow a clear path of promoting the uptake by PID infrastructures and service providers and will only develop and operate NFDI - specific services if necessary.

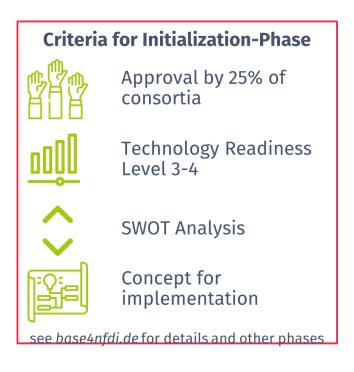
2. Terminology Services 4NFDI - TS4NFDI

Will provide a federated architecture of TS components and enable interoperability across disciplines to foster alignment of terminologies to build common knowledge representation and knowledge engineering framework across NFDI communities.

Potential Topics for Proposals from / in close cooperation with NFDI4Earth Food for Discussion!

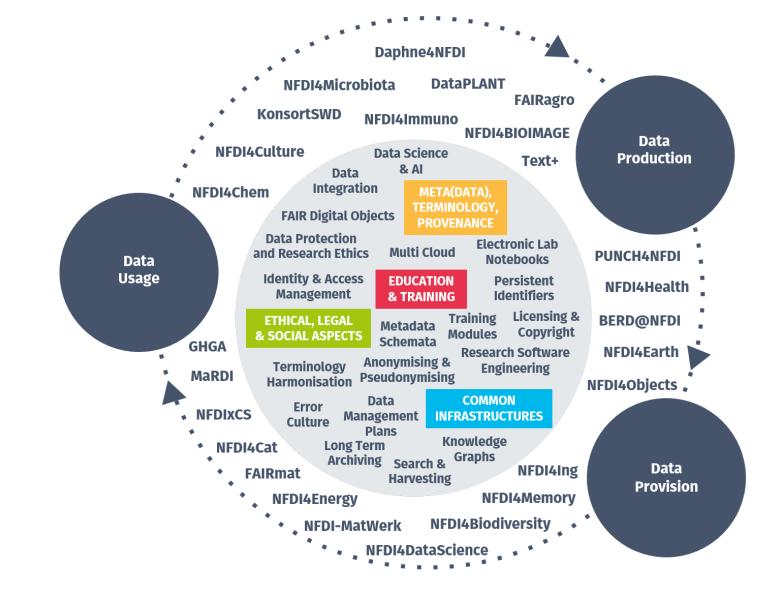
- Georeferencing/Geobase-Data
- User Support Network
- Long-Time-Archiving
- Collaborative Computeand Analysis-Environments

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Thank You! Questions?

Lars Bernard https://base4nfdi.de/



Funded by **DFG** as part of **NFDI**.

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What Base4NFDI will do Identifying researchers' needs

- Sections of the NFDI Association are the places to identify cross-cutting needs of consortia
- Combine infrastructural & technological expertise and domain knowledge
- Provide expertise, blueprints, and resources for development processes
- Act as incubators for continuously identifying potential basic services

